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Exhibit R-2, RDT&E Budget Item Justification: PB 2012 United States Special Operations Command **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY

0400: *Research, Development, Test & Evaluation, Defense-Wide*
BA 3: *Advanced Technology Development (ATD)*

R-1 ITEM NOMENCLATURE

PE 1160422BB: *Aviation Engineering Analysis*

| COST (\$ in Millions) | FY 2010 | FY 2011 | FY 2012 Base | FY 2012 OCO | FY 2012 Total | FY 2013 | FY 2014 | FY 2015 | FY 2016 | Cost To Complete | Total Cost |
|---|----------------|----------------|---------------------|--------------------|----------------------|----------------|----------------|----------------|----------------|-------------------------|-------------------|
| Total Program Element | 3.412 | 4.234 | 0.837 | - | 0.837 | 0.851 | 0.865 | 0.879 | 0.894 | Continuing | Continuing |
| SF101: <i>Aviation Engineering Analysis</i> | 3.412 | 4.234 | 0.837 | - | 0.837 | 0.851 | 0.865 | 0.879 | 0.894 | Continuing | Continuing |

A. Mission Description and Budget Item Justification

This program element provides rapid response capability for the investigation, evaluation, and demonstration of technologies for Special Operations Forces (SOF)-unique aviation requirements. Timely application of SOF-unique technology is critical and necessary to meet requirements in such areas as: sensor integration; enhanced situational awareness; near-real-time intelligence to include data fusion, threat detection and avoidance; electronic support measures for threat geo-location and specific emitter identification; navigation; target detection; and future SOF aircraft requirements.

B. Program Change Summary (\$ in Millions)

| | <u>FY 2010</u> | <u>FY 2011</u> | <u>FY 2012 Base</u> | <u>FY 2012 OCO</u> | <u>FY 2012 Total</u> |
|-------------------------------------|-----------------------|-----------------------|----------------------------|---------------------------|-----------------------------|
| Previous President's Budget | 3.529 | 4.234 | 0.837 | - | 0.837 |
| Current President's Budget | 3.412 | 4.234 | 0.837 | - | 0.837 |
| Total Adjustments | -0.117 | - | - | - | - |
| • Congressional General Reductions | | - | | | |
| • Congressional Directed Reductions | | - | | | |
| • Congressional Rescissions | - | - | | | |
| • Congressional Adds | | - | | | |
| • Congressional Directed Transfers | | - | | | |
| • Reprogrammings | -0.005 | - | | | |
| • SBIR/STTR Transfer | -0.112 | - | | | |

Change Summary Explanation

Funding:

FY 2010 Decrease of \$0.117 million is due to reprogramming for higher command priorities (-\$0.005 million) and a transfer of funds to Small Business Innovative Research (-\$0.112 million).

FY 2011 None.

FY 2012 None

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| Exhibit R-2, RDT&E Budget Item Justification: PB 2012 United States Special Operations Command | | DATE: February 2011 |
| APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 3: <i>Advanced Technology Development (ATD)</i> | R-1 ITEM NOMENCLATURE PE 1160422BB: <i>Aviation Engineering Analysis</i> | |
| <p>Schedule: None.</p> <p>Technical: None.</p> | | |

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|---|----------------|----------------|---------------------|--|----------------------|----------------|----------------|---|----------------|-------------------------|-------------------|
| Exhibit R-2A, RDT&E Project Justification: PB 2012 United States Special Operations Command | | | | | | | | DATE: February 2011 | | | |
| APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 3: <i>Advanced Technology Development (ATD)</i> | | | | R-1 ITEM NOMENCLATURE PE 1160422BB: <i>Aviation Engineering Analysis</i> | | | | PROJECT SF101: <i>Aviation Engineering Analysis</i> | | | |
| COST (\$ in Millions) | FY 2010 | FY 2011 | FY 2012 Base | FY 2012 OCO | FY 2012 Total | FY 2013 | FY 2014 | FY 2015 | FY 2016 | Cost To Complete | Total Cost |
| SF101: <i>Aviation Engineering Analysis</i> | 3.412 | 4.234 | 0.837 | - | 0.837 | 0.851 | 0.865 | 0.879 | 0.894 | Continuing | Continuing |

A. Mission Description and Budget Item Justification
This project provides a rapid response capability to support SOF fixed wing aircraft and unmanned aircraft systems. The purpose is to correct system deficiencies, improve asset life, and enhance mission capability through the means of feasibility studies, analysis of alternatives, pre-developmental risk reduction studies, and engineering analyses. This project provides the engineering required to improve the design and performance integrity of the aircraft support systems, sub-systems, equipment, and embedded computer software as they relate to the maintenance, overhaul, repair, quality assurance, modifications, materiel improvements, and service life extensions. Also conducts risk reduction studies, analyses, and demonstrations to support emerging, time critical weapons and sensor enhancements.

| | | | |
|--|----------------|----------------|----------------|
| <u>B. Accomplishments/Planned Programs (\$ in Millions)</u> | FY 2010 | FY 2011 | FY 2012 |
| <u>Title:</u> Aviation Engineering Analysis <u>FY 2010 Accomplishments:</u> Performed engineering studies and analyses for fixed wing aviation SOF-unique equipment and missions. <u>FY 2011 Plans:</u> Performs engineering studies and analyses for fixed wing aviation SOF-unique equipment and missions. <u>FY 2012 Plans:</u> Perform engineering studies and analyses for fixed wing aviation SOF-unique equipment and missions. | 3.412 | 4.234 | 0.837 |
| Accomplishments/Planned Programs Subtotals | 3.412 | 4.234 | 0.837 |

C. Other Program Funding Summary (\$ in Millions)
N/A

D. Acquisition Strategy
N/A

E. Performance Metrics
N/A

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